

Material Safety Data Sheet (MSDS) for Oligomycin

I. Identification:

Product name: Oligomycin
Product Catalog: 9996
Manufacturer Supplier: Cell Signaling Technology
 3 Trask Lane
 Danvers, MA 01923 USA
 978-867-2300 TEL
 978-867-2400 FAX
 978-578-6737 EMERGENCY TEL

II. Composition/Information:

Chemical Name: Oligomycin from *Streptomyces diastatochromogene*
CAS#: 1404-19-9
Molecular Weight: 790
RTECS number: RK3325000

III. Hazard Identification: EMERGENCY OVERVIEW

Appearance: Off-white powder.

Caution: May cause eye and skin irritation. May cause respiratory and digestive tract irritation. To the best of our knowledge, the chemical, physical, toxicological properties of this substance have not been thoroughly investigated.

IV. First Aid Measures:

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Get medical attention.

Skin exposure: In case of contact, immediately wash skin with soap and water for at least 15 minutes. Remove contaminated clothing. Wash clothing before reuse.

Eye exposure: In case of contact with eyes, immediately flush eyes water for at least 15 minutes. Get medical attention.

V. Fire Fighting Measures:

Flash Point: No data available.

Autoignition Temperature: No data available.

Explosion: No data available.

Fire extinguishing media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Firefighting: Wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes. May emit toxic fumes under fire conditions.

VI. Accidental Release Measures: Wear appropriate personal protective equipment as indicated in Section VIII. Sweep up material and avoid generating dust. Transfer immediately to a closed chemical waste container for disposal. Wash spill site after material has been picked up for disposal.

VII. Handling and Storage:

Store in tightly closed container at -20°C.

Avoid contact with eyes, skin, and clothing. Use with adequate ventilation and avoid generating dust. Wash thoroughly after handling.

VIII. Exposure Controls/Personal:

Ventilation System: A system of local and/or general exhaust is recommended.

Skin Protection: Wear compatible chemical resistant gloves and protective clothing.

Eye protection: Wear protective safety glasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

IX. Physical and Chemical Properties:

Appearance:	off-white to cream color
Physical State:	crystalline solid
Odor:	data not available
Melting Point:	data not available
Freezing point:	data not available
Volatile Organic Compounds	data not available
Solubility:	data not available

X. Stability and Reactivity:

Stability: Table for 2-3 weeks at room temperature or for up to 2 years at -20°C.

Conditions to avoid: Acids, bases, light and heat.

Hazardous Decomposition: Carbon monoxide and carbon dioxide fumes may occur.

XI. Toxicological Information:

Mouse LDLo 2500 µg/kg intraperitoneal: muscle weakness, convulsions or effect on seizure threshold, respiratory depression.

Mouse LDLo 2500 µg/kg intravenous: muscle weakness, convulsions or effect on seizure threshold, respiratory depression, dyspnea.

Rat LDLo 500 µg/kg intraperitoneal.

XII. Ecological Information:

Data not available.

XIII. Disposal Considerations: Dispose of in accordance with federal, state, local environmental regulations.

XIV. Transport Information:

DOT: This substance is considered non-hazardous for transport.

IATA: This substance is considered non-hazardous for air transport.

XV. Regulatory Information:

EU Regulations/Classifications/Labeling Information: Not classified.

US Regulatory Information

SARA Listed: No.

Canada (WHMIS): DSL No. NDSL No.

XVI. Other Information:

This compound is sold only for laboratory research use. It is not intended for use in humans. The information presented in this material safety data sheet is believed to be correct but does not claim to be all-inclusive and shall be used only as a guide for experienced laboratory personnel. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.